

The diagram illustrates a pixel array and its column vector representation. On the left, a grid of pixels is shown with rows labeled 'ROW 1', 'ROW 2', 'ROW 3', 'ROW 4', and 'ROW M'. The first four rows each have four columns. Arrows from the labels 'PIXEL 1', 'PIXEL 2', 'PIXEL 3', and 'PIXEL 4' point to the first four columns of the first four rows, respectively. To the right of the grid, a vertical column of boxes represents the column vector, with an arrow from 'PIXEL N' pointing to the top box. The entire column vector is enclosed in a large oval labeled '20'. Ellipses indicate that there are more rows and columns in the array and more elements in the column vector.

10

660660-11EE6E60

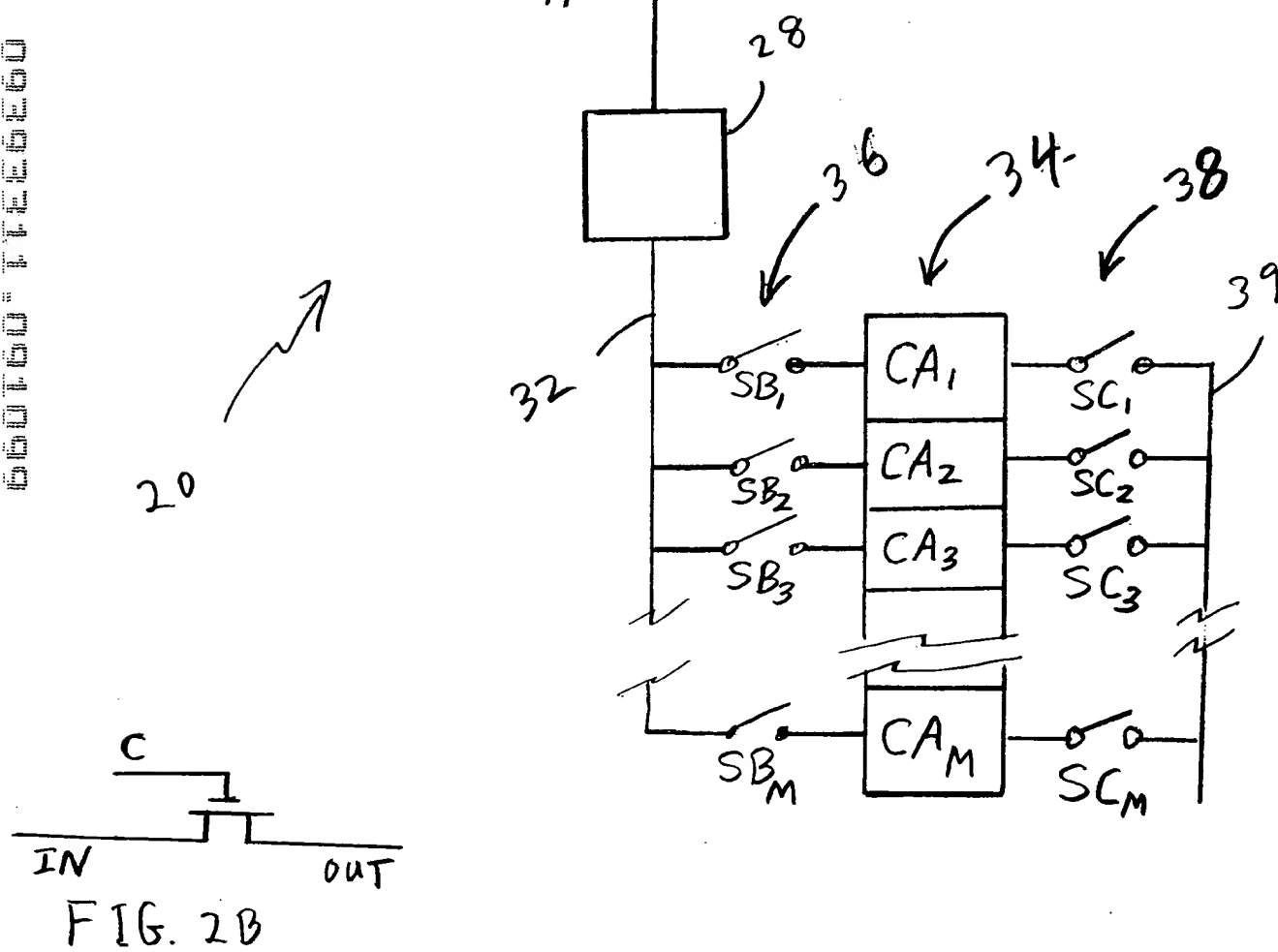
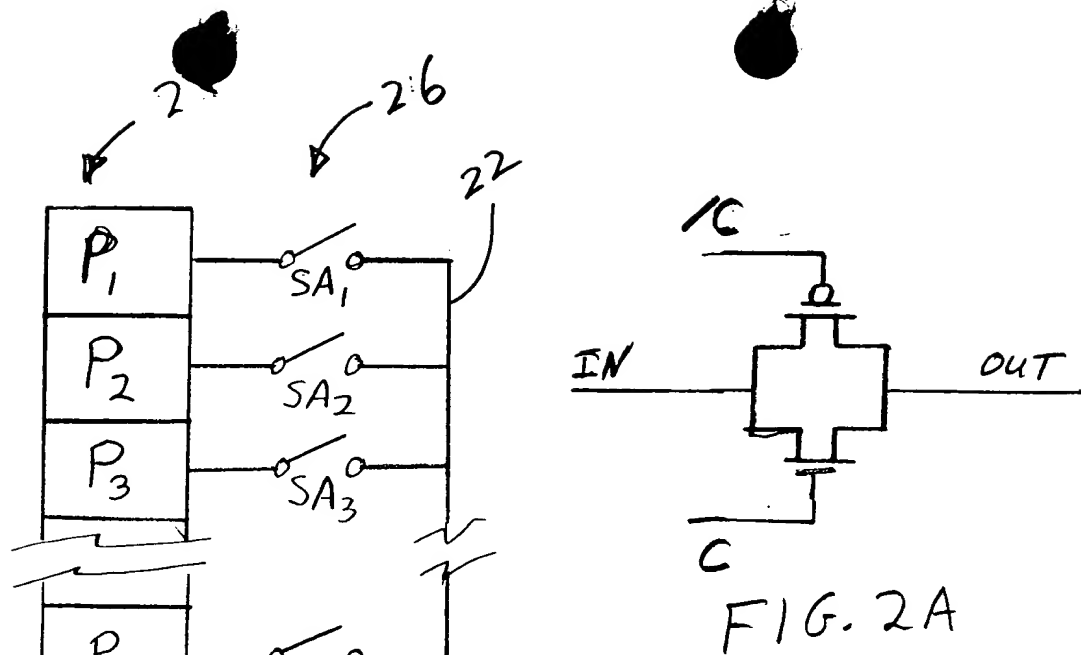
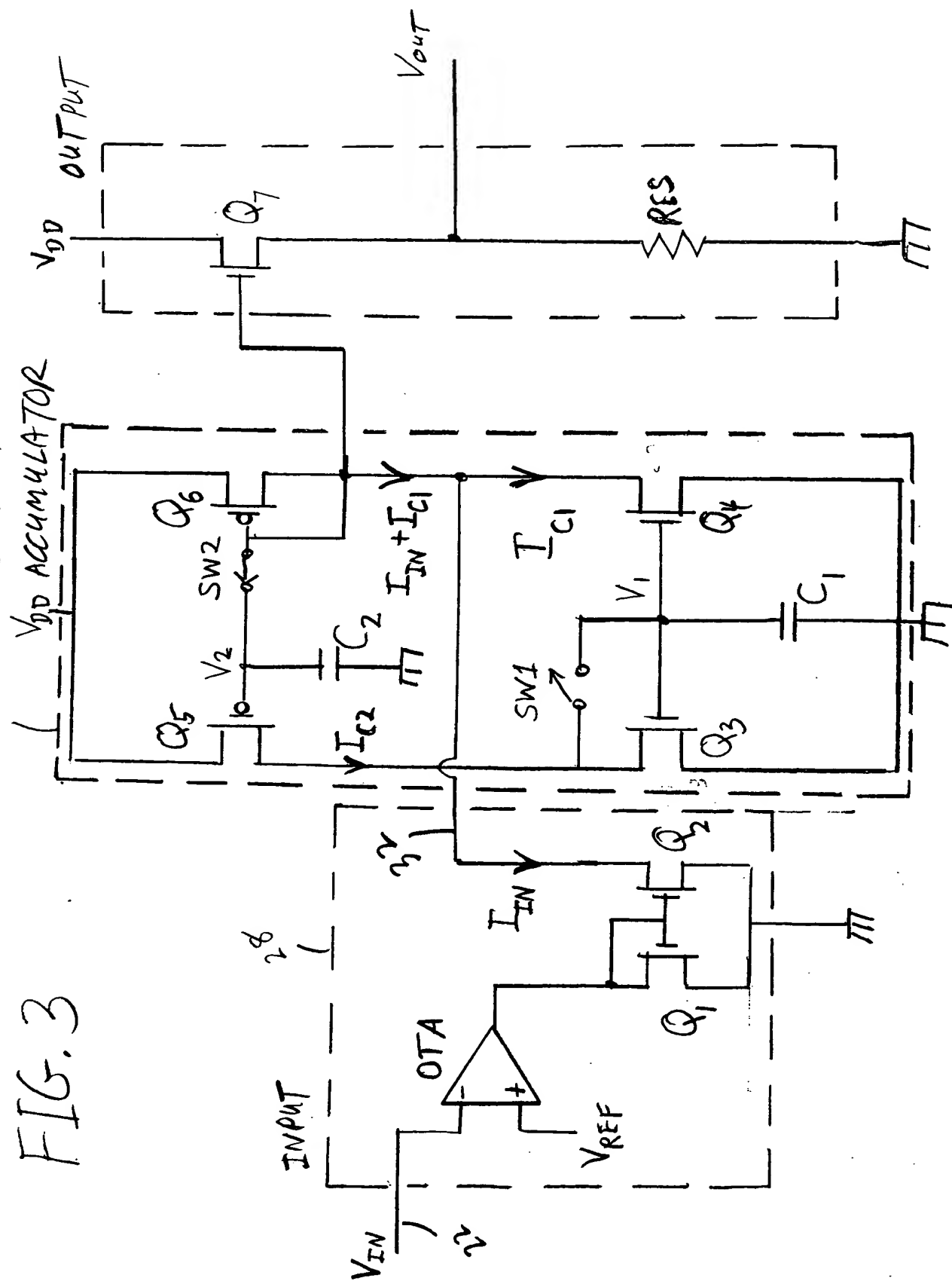


FIG. 2

FIG. 3

40

CURRENT



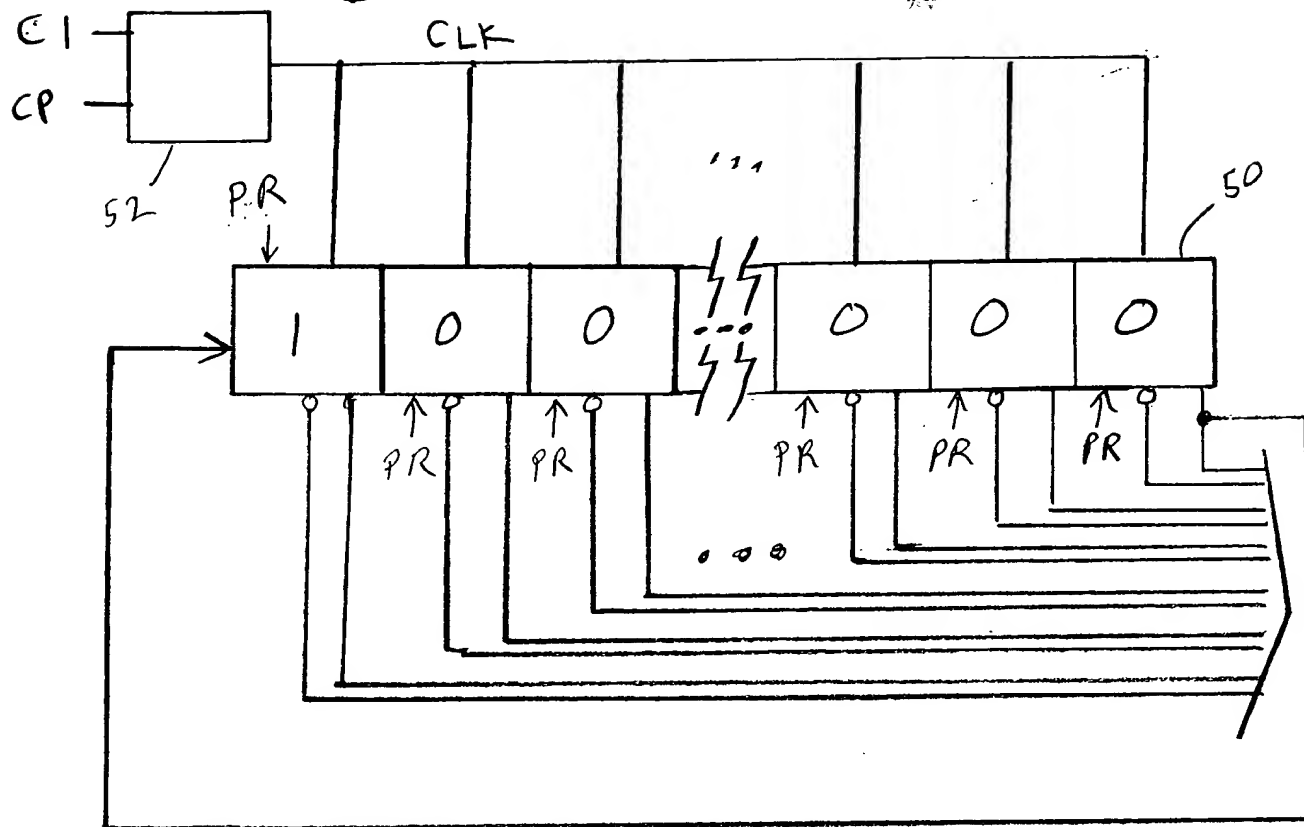
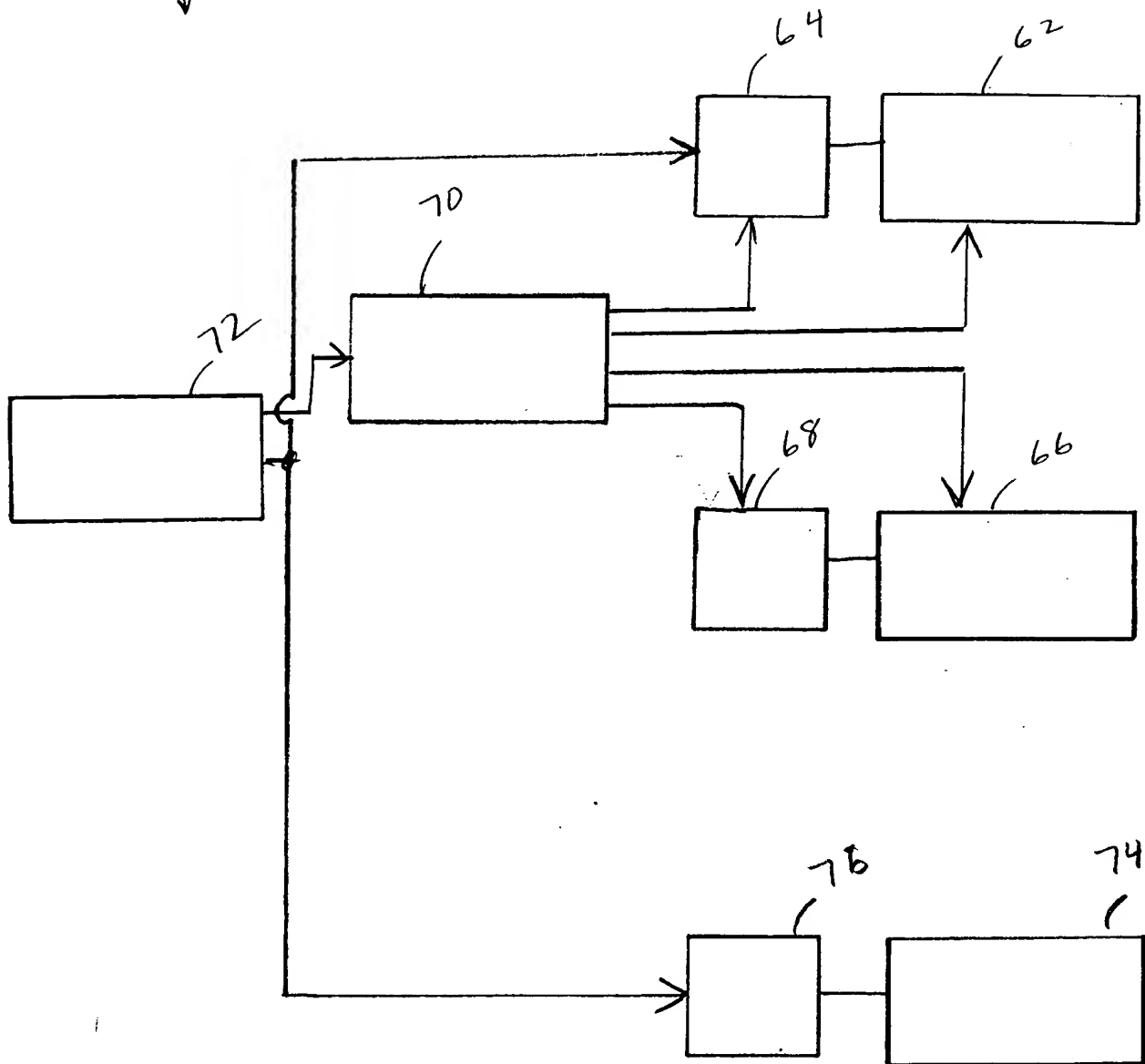
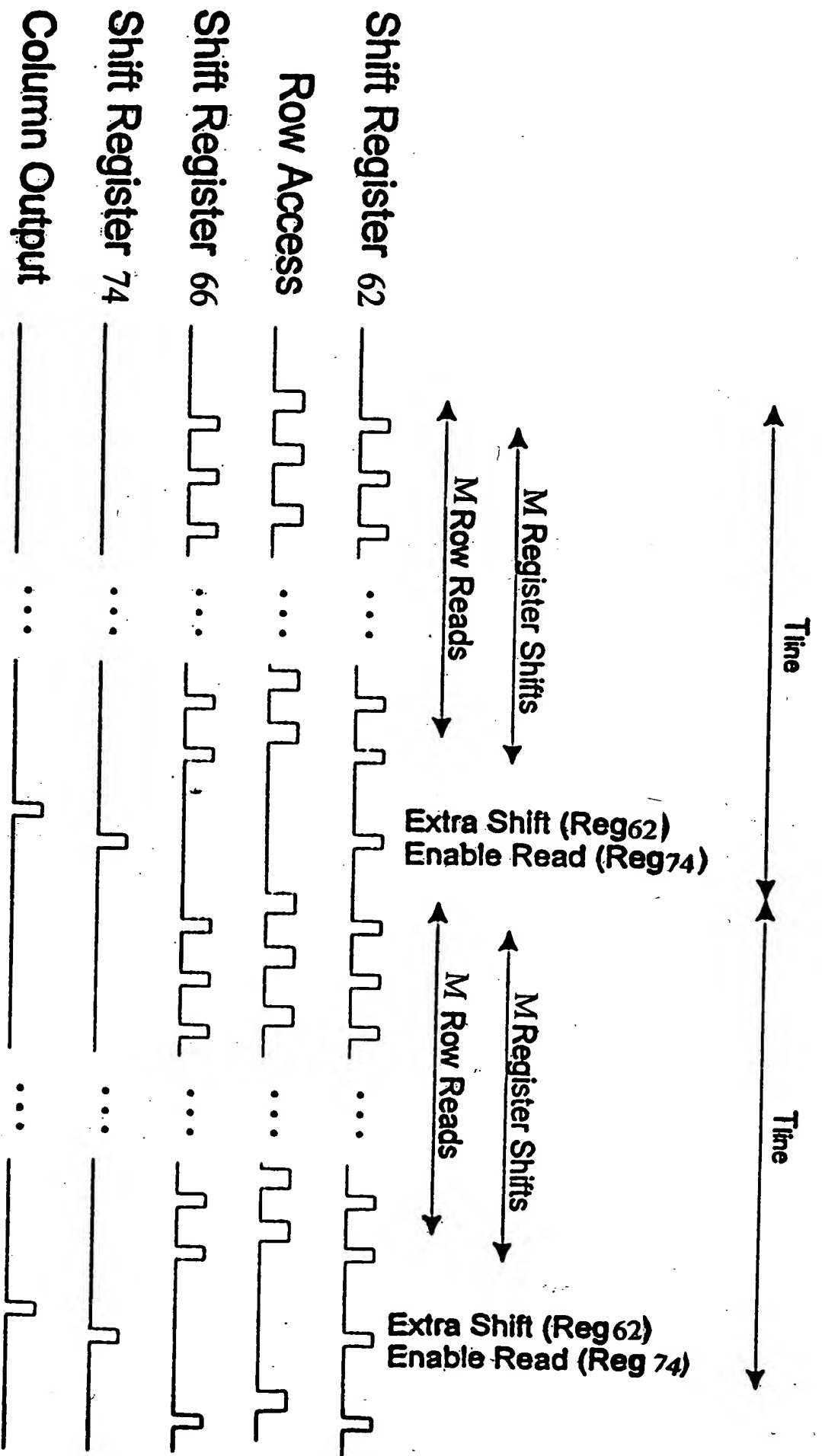


FIG 4

60

[illegible]



F16.6

START

FIG. 7

N1

N2

N3

S1

S11

COUPLE PIXEL ONTO  
COLUMN BUS

S12

ROUTE COLUMN BUS  
INTO ACCUMULATOR

S13

UPDATE  
ACCUMULATOR

S14

LAST  
PIXEL IN  
COLUMN ?

YES

S15

NO

INCREMENT FIRST  
AND SECOND SWITCH  
CONTROL CIRCUITS

S2

S21

END  
OF FRAME ?

YES

S22

NO

INCREMENT FIRST  
AND THIRD SWITCH  
CONTROL CIRCUIT

S23

OUTPUT VALUE

660160-1-EE660